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L6: Entry 3 of 4

File: USPT

Aug 7, 2001

DOCUMENT-IDENTIFIER: US 6272551 B1

TITLE: Network adapter for transmitting network packets between a host device and a power line network

Detailed Description Text (2):

Embodiments of the present invention are directed to providing a transparent method enabling an existing Network Operating System (NOS) to interface with a network of a type unknown to that NOS. In accordance with one particular embodiment, for example, a network packet formatted by an NOS in accordance with a known network protocol, such as the Ethernet network protocol (defined in IEEE Std. 802.3-1996), is transparently translated by a network adapter for transmission over a network operating in accordance with a protocol unknown to the NOS, such as a power line network. Conversely, a previously-translated network packet received by such a network adapter may be retranslated and provided to the NOS, which may then process the network packet using its existing processing logic. This and other embodiments are described below.

Current US Original Classification (1):

709/250

Current US Cross Reference Classification (3):

709/236

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1. Document ID: US 6400730 B1

L6: Entry 1 of 4

File: USPT

Jun 4, 2002

DOCUMENT-IDENTIFIER: US 6400730 B1

TITLE: Method and apparatus for transferring data between IP network devices and SCSI and fibre channel devices over an IP network

Brief Summary Text (9):

According to one aspect of the present invention, a method is provided for routing data packets in a switch device in a network such as a SAN. The method typically comprises the steps of receiving a packet from a first network device at a first port interface of the switch device, wherein the packet is one of a SCSI formatted packet (i.e., SCSI formatted data stream converted into a packet), a Fibre Channel (FC) formatted packet and an Internet protocol (IP) formatted packet, wherein the first port interface is communicably coupled to the first network device, and converting the received packet into a packet having an internal format. The method also typically includes the steps of routing the internal format packet to a second port interface of the switch device, reconverting the internal format packet to one of a SCSI formatted packet, an FC formatted packet or an IP formatted packet, and transmitting the reconverted packet to a second network device communicably coupled to the second port interface.

Current US Cross Reference Classification (1):

709/230

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KMPC	Drawn D
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2. Document ID: US 6356529 B1

L6: Entry 2 of 4

File: USPT

Mar 12, 2002

DOCUMENT-IDENTIFIER: US 6356529 B1

** See image for Certificate of Correction **

TITLE: System and method for rapid wireless application protocol translation

Brief Summary Text (9):

In addition, proxy server 16 can only translate the data at the highest (application) level of the wireless or wired network protocols, which significantly decreases the efficiency of the translation process. The data must therefore be converted through all of the network layers before translation, and must then be reconverted to a format which is suitable for transmission through the physical

network media, whether wired (cables) or wireless.

Current US Cross Reference Classification (3):
709/203

Current US Cross Reference Classification (4):
709/230

Current US Cross Reference Classification (5):
709/249

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3. Document ID: US 6272551 B1

L6: Entry 3 of 4

File: USPT

Aug 7, 2001

DOCUMENT-IDENTIFIER: US 6272551 B1

TITLE: Network adapter for transmitting network packets between a host device and a power line network

Detailed Description Text (2):

Embodiments of the present invention are directed to providing a transparent method enabling an existing Network Operating System (NOS) to interface with a network of a type unknown to that NOS. In accordance with one particular embodiment, for example, a network packet formatted by an NOS in accordance with a known network protocol, such as the Ethernet network protocol (defined in IEEE Std. 802.3-1996), is transparently translated by a network adapter for transmission over a network operating in accordance with a protocol unknown to the NOS, such as a power line network. Conversely, a previously-translated network packet received by such a network adapter may be retranslated and provided to the NOS, which may then process the network packet using its existing processing logic. This and other embodiments are described below.

Current US Original Classification (1):

709/250

Current US Cross Reference Classification (3):

709/236

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWD](#) | [Draw D](#)

4. Document ID: US 5237693 A

L6: Entry 4 of 4

File: USPT

Aug 17, 1993

DOCUMENT-IDENTIFIER: US 5237693 A

TITLE: System for accessing peripheral devices connected in network

Abstract Text (1):

The system for accessing a plurality of devices connected in a network by using a system call, said system capable of accessing a device connected with any one of nodes through the network, the system includes a unit for detecting a device requested to be accessed and a node connected with the device through the network, a unit for converting the system call into a protocol at a time when the device to be accessed is connected with a different node from which the access is not issued, a unit for transmitting the protocol from the node to the different node through the network, and a unit for reconverting the protocol transmitted into the system call so that the system call is executed. The converting unit is adapted to execute the system call at a time when the device to be accessed is connected with a node from which the access is issued and the detecting unit includes an application for issuing the system call for accessing the device connected with the different node, and a router for detecting whether or not the device to be accessed is located in the node.

Brief Summary Text (48):

The first object of the present invention can be achieved by a system for accessing a plurality of devices connected in a network by using a system call, said system capable of accessing a device connected with any one of nodes through the network, the system includes a unit for detecting a device requested to be accessed and a node connected with the device through the network, a unit for converting the system call into a protocol at a time when the device to be accessed is connected with a different node from which the access is not issued, a unit for transmitting the protocol from the node to the different node through the network, and a unit for reconverting the protocol transmitted into the system call so that the system call is executed.

Brief Summary Text (58):

The second object of the present invention can be achieved by a system for accessing a plurality of devices connected in a network by using a system call, the system capable of accessing a console connected with any one of nodes through the network, the system includes a unit for detecting a console to be accessed in any one of nodes, a unit for executing a system call at a time when the console to be accessed is connected to a node from which the access is issued and for converting the system into a protocol at a time when the console to be accessed is connected with a different node from which the access is not issued, a unit for transmitting the protocol from the node to the different node having the console to be accessed through a transparent interface, and a unit for reconverting the protocol transmitted into the system call and for executing the system call so that the console is accessed to the node from the different node.

Current US Original Classification (1):

709/229

Current US Cross Reference Classification (1):

709/226

Current US Cross Reference Classification (2):

709/230

Current US Cross Reference Classification (3):

709/246

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